Name:

at1113exam: Expand, factor, and solve quadratics (v210)

1. Expand the following expression into standard form.

$$(6x - 7)(6x + 7)$$

2. Solve the equation.

$$(3x - 5)(4x - 9) \;=\; 0$$

3. Expand the following expression into standard form.

$$(2x - 7)^2$$

4. Expand the following expression into standard form.

$$(5x - 4)(2x - 7)$$

5. Factor the expression.

$$64x^2 - 49$$

6. Factor the expression.

$$x^2 + 10x + 16$$

7. Solve the equation.

$$12x^2 + 48x + 12 \;=\; 5x^2 - 3x - 2$$

8. Solve the equation with factoring by grouping.

$$15x^2 - 20x + 18x - 24 \;=\; 0$$